

AMENDMENTS TO THE CLAIMS

Please cancel Claims 1, 2, 12, 14 and 15; and amend Claims 3-11 and 13 as follows.

LISTING OF CLAIMS

1. (cancelled)

2. (cancelled)

²/₃ (currently amended) A heat exchanger according to Claim ¹/₂ ~~[[2]]~~, wherein ~~[[both]]~~ the third tubes are provided extending in the vertical direction, and the hole is provided in the header tank on the lower side.

³/₄ (currently amended) A heat exchanger according to Claim ¹/₂ ~~[[1]]~~, wherein the temperature of the first fluid is higher than that of the second fluid.

⁴/₅ (currently amended) A heat exchanger according to Claim ¹/₂ ~~[[1]]~~, wherein the first fluid is engine coolant which flows in the first tubes and the second fluid is electric system coolant for cooling an electric motor and a control circuit for the motor which flows in the second tubes.

⁵/₆ (currently amended) A heat exchanger according to Claim ¹/₂ ~~[[1]]~~, wherein each of the header ~~[[tank]]~~ tanks includes a core plate into which the longitudinal end portions of the first tubes, the second tubes and the third tubes are inserted and a tank

body for defining the chamber in the header tank together with the core plate, and wherein the first tubes, the second tubes, the third tubes, the fins, and the core plate are made of aluminum and the tank body is made of resin.

^{le} 7. (currently amended) A heat exchanger according to Claim ¹ 9, wherein the header tank includes a core plate into which the longitudinal end portions of the first tubes, the second tubes and the third tubes are inserted and a tank body for defining the chamber in the header tank together with the core plate, and wherein the first tubes, the second tubes, the third tubes, the fins, the core plate, the tank body and the separator are made of aluminum.

8. (currently amended) A heat exchanger according to Claim ^{le} 7, wherein the core plate and the separator are joined to each other by means of brazing.


9. (currently amended) A heat exchanger comprising:
a plurality of first tubes made of metal in which a first fluid circulates;
a plurality of second tubes made of metal in which a second fluid circulates;
a plurality of third tubes disposed between the first and second plurality of tubes;
a pair of header tanks made of metal communicating with [[both]] the first tubes, the second tubes and the third tubes; and

~~two pieces of separators made of metal for dividing a space~~ disposed in each of the header tanks to divide a chamber in each of the header ~~[[tank]] tanks~~ into a first space communicating with the first tubes and a second space communicating with the second tubes, the two pieces of separators ~~composing~~ defining a third space between the first space and the second space, ~~the third space not containing any circulating heat exchange medium communicating with the third tubes;~~ wherein

the two pieces of separators are joined by brazing to ~~[[the]]~~ a respective header tank under the condition that the two pieces of separators are inserted from ~~[[the]]~~ a slit hole formed in the respective header tank; ~~into the header tank, and~~

a hole for communicating the third space with the outside of the respective header tank is formed in the ~~third space corresponding portion corresponding to the third space in the head~~ respective header tank ~~[[.]]; and~~

there is no fluid inlet or outlet associated with either of the third spaces.

 ^a
10. (currently amended) A method of manufacturing a heat exchanger,

the heat exchanger comprising: a plurality of first tubes made of metal in which a first fluid circulates; a plurality of second tubes made of metal in which a second fluid circulates; a plurality of third tubes disposed between said first and second plurality of tubes; a pair of header tanks made of metal communicating with ~~[[both]]~~ the first tubes, the second tubes and the third tubes, the header tanks being arranged at both longitudinal end sides of ~~[[both]]~~ the first tubes, the second tubes and the third tubes; and two pieces of separators made of metal ~~for dividing a space~~ disposed in each of the header tanks divide a chamber in each of the header ~~[[tank]] tanks~~ into a first space

communicating with the first tubes and a second space communicating with the second tubes, the two ~~pieces of~~ separators ~~composing~~ defining a third space between the first space and the second space communicating with the third tubes; wherein the two ~~pieces of~~ separators are joined by brazing to ~~[[the]]~~ a respective header tank under the condition that the two ~~pieces of~~ separators are inserted from ~~[[the]]~~ a slit hole formed in the respective header tank ~~into the header tank, and~~, a hole for communicating the third space with the outside of the respective header tank is formed in the ~~third space~~ ~~corresponding portion corresponding to the third space in the~~ respective header tank, and there is no fluid inlet or outlet associated with either of the third spaces.

the method of manufacturing the heat exchanger comprising the steps of: coating flux on the ~~separator~~ separators after the ~~separator has~~ separators have been inserted into the respective header tank; brazing the ~~separator~~ separators and the respective header tank to each other; and conducting an inspection for leaks by using the hole.

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11. (currently amended) A method of manufacturing a heat exchanger according to Claim ^a10, further comprising the step of inspecting and repairing a brazed portion of the ~~separator~~ separators and the respective header tank after the ~~separator~~ separators and the respective header tank have been brazed to each other.

12. (cancelled)

⁸
13. (currently amended) A heat exchanger according to Claim ¹~~9~~, where in
wherein the third ~~spaces from~~ space forms a heat-insulating ~~spaces~~ space for insulating
between the first fluid space and the second fluid space.

14. (cancelled)

15. (cancelled)

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